

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-117880

(43)Date of publication of application : 19.04.2002

(51)Int.Cl.

H01M 8/04

H01M 8/10

H01M 8/24

(21)Application number : 2000-306744

(71)Applicant : HONDA MOTOR CO LTD

(22)Date of filing : 05.10.2000

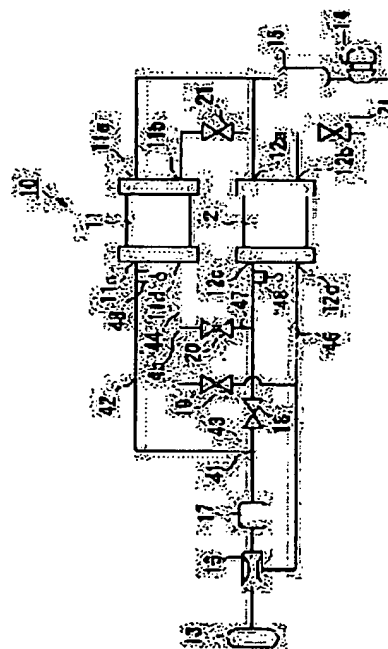
(72)Inventor : KATAGIRI TOSHIKATSU  
SHIMANUKI HIROSHI  
SUZUKI MIKIHIRO  
KUSANO YOSHIO

## (54) FUEL CELL DEVICE

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To make a fuel cell maintain a predetermined wet state by humidifying reaction gas supplied to the fuel cell, even if the output of the fuel cell is relatively low.

**SOLUTION:** The fuel cell device 10 is constituted with two or more fuel cell stacks 11, 12, fuel gas flow paths 42, 43 which supply the fuel gas in parallel to each the fuel cell stacks 11, 12, discharged gas flow paths 44, 46 which discharge in parallel the discharged gas discharged from fuel electrodes of each the fuel cell stacks 11, 12, a connection flow way 47 which connects the discharge gas flow path 44, which is connected to the fuel cell stack 11, to the fuel gas flow way 43, which is connected to the fuel cell stack 12, and a first, second, and third change valves 18, 19, and 20 prepared in the fuel gas flow path 43, discharge gas flow path 44, and connection flow path 47. The fuel cell stack 11 is made to be a humidifier for humidifying the fuel gas by selecting opening-and-closing operations of the first, second, and third change valves 18, 19 and 20.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

BEST AVAILABLE COPY